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2 **In the Claims**

3 Claims 1-17 and 22-46 are canceled without prejudice. Claims 47-52 are  
4 added. Claims 18-21 are amended. Claims 18-21 and 47-52 are pending in the  
5 application and listed below:

6

7 **1 -17. (CANCELED)**

8

9 **18. (CURRENTLY AMENDED)** A facial image-processing The  
10 method ~~of claim 17~~ comprising:

11 illuminating a face with multiple different light sources, wherein at least  
12 one of the light sources is polarized;

13 measuring range map data from said illuminating;

14 measuring image data from said illuminating;

15 deriving a 3-dimensional surface from the range map data;

16 computing surface normals to the 3-dimensional surface; and

17 processing the surface normals and the image data to derive an albedo map.

18

19 **19. (CURRENTLY AMENDED)** A facial image-processing The  
20 method ~~of claim 17~~ comprising:

21 illuminating a face with multiple different light sources, wherein all of the  
22 light sources are polarized;

23 measuring range map data from said illuminating;

24 measuring image data from said illuminating;

25 deriving a 3-dimensional surface from the range map data;

computing surface normals to the 3-dimensional surface; and

processing the surface normals and the image data to derive an albedo map.

20. (CURRENTLY AMENDED) A facial image-processing The method of ~~claim 17~~ further comprising:

illuminating a face with multiple different light sources;

measuring range map data from said illuminating;

after said measuring of the range map data, applying a generic face template to the range map data to reject noise that is associated with the range map data;

measuring image data from said illuminating;

deriving a 3-dimensional surface from the range map data;

computing surface normals to the 3-dimensional surface; and

processing the surface normals and the image data to derive an albedo map.

21. (CURRENTLY AMENDED) A facial image-processing The method of ~~claim 17~~ further comprising:

illuminating a face with multiple different light sources;

measuring range map data from said illuminating;

measuring image data from said illuminating;

prior to deriving the 3-dimensional surface, filtering the range map data;

deriving a 3-dimensional surface from the range map data;

computing surface normals to the 3-dimensional surface; and

processing the surface normals and the image data to derive a

**22 - 46. (CANCELED)**

1           **47. (NEW)** The method of claim 18, wherein at least one of the light  
2 sources is infrared.

3  
4           **48. (NEW)** One or more computer-readable media having computer-  
5 readable instructions thereon which, when executed by a computer, implement the  
6 method of claim 18.

7  
8           **49. (NEW)** The method of claim 18, wherein the light sources are at  
9 different frequencies.

10  
11          **50. (NEW)** One or more computer-readable media having computer-  
12 readable instructions thereon which, when executed by a computer, implement the  
13 method of claim 19.

14  
15          **51. (NEW)** One or more computer-readable media having computer-  
16 readable instructions thereon which, when executed by a computer, implement the  
17 method of claim 20.

18  
19          **52. (NEW)** One or more computer-readable media having computer-  
20 readable instructions thereon which, when executed by a computer, implement the  
21 method of claim 21.